

STARK COUNTY

Stark County Highway Department

Residential Subdivision Roadway Standards Policy

Revised January 2012

ORIGINALLY ADOPTED BY STARK COUNTY 09/21/10

DATE:

REVISION ADOPTED

CHAIRPERSON, BOARD OF COUNTY COMMISSIONERS

ATTEST:

COUNTY AUDITOR

NOTICE TO PUBLIC:

SUBDIVISION ROADWAYS ARE NOT COUNTY ROADS AND ARE NOT ENTITLED TO MAINTENANCE, REPAIR, RECONSTRUCTION, CLEANING OR OTHER SERVICES AS COUNTY ROADS. SUCH SERVICES, SHALL BE FUNDED BY SPECIAL ASSESSMENT DISTRICT OR OTHER SPECIAL USE AREA AS PERMITTED BY LAW, SUCH AS HOME OWNERS ASSOCIATIONS.

EMERGENCY RESPONSES (FLOOD, SNOWSTORM, ETC.) SHALL BE ADDRESSED ON A CASE BY CASE BASIS BY THE COUNTY COMMISSIONERS THROUGH THE COUNTY ROAD SUPERINTENDENT.

Roadway Design Standards

The roadway shall meet the design standards shown in the attached Figure 1, Figure 2 or Figure 3 and the following:

I. GENERAL

The roadway and all appurtenances shall be designed by a Professional Engineer registered in the state of North Dakota.

II. ROADWAY GEOMETRICS

1. Design Speed for Horizontal and Vertical Alignment shall meet a minimum 30 MPH for Stopping Sight Distance.
2. Cul-de-sacs are not allowed unless approved by the County. If allowed, cul-de-sacs must have a minimum of 100' diameter, have 122' of right of way, and be no more than 750' in length.

III. SURFACING

1. Roadway surfacing for new subdivisions within the two (2) mile zoning authority from the city limits of the City of Dickinson shall be pavement as provided by Figure 1 or Figure 3 herein.
2. Roadway Surfacing for new subdivisions outside of the two mile zoning authority of Dickinson may either be gravel or paved. Such surfacing material shall be determined by the County Commission with the advice and consultation of the county engineer and Road Superintendent and done in accordance with Figure 1, 2 or 3 as attached.
3. If the subdivision is adjacent to, or connects to an existing subdivision, the surfacing type (gravel or paved) shall be the same as or better than the surfacing in the existing subdivision. Paved surfacing may be used in any subdivision.

IV. DRAINAGE

1. Design of ditches and culverts shall be in compliance with all local, state, and federal rules, regulations, codes and law. Culverts shall be a minimum 18" for centerline pipe and a minimum 15" on approach pipe and shall meet the requirements of a 10-year runoff event unless determined otherwise by the Design Engineer and approved by the County Engineer.
2. Any culverts or structures replaced in existing subdivisions shall meet these standards.
3. All ditches shall have positive drainage; no roadway shall be allowed to hold back water as a dam or storm water detention pond unless otherwise approved by the County Engineer.
4. If the roadway is built adjacent to an existing wetland or retention area, the roadway must be built with a minimum of 2' of freeboard for the 100-year event.
5. If the roadway is constructed with curb & gutter (Figure 3), drainage shall be accomplished with an urban storm sewer system consisting of inlets, manholes, inlet leads, trunk lines and outfall structures, as needed. Constructed ditches behind the curb and gutter are not allowed. Storm Sewer shall be designed according to NDDOT standards for the applicable roadway classification.

V. CULVERTS AND STRUCTURES

1. Culvert material shall be corrugated steel unless otherwise recommended by the Design Engineer and approved by the County Engineer and shall follow NDDOT design standards on the need for culvert coatings.
2. End sections shall be installed on all culverts.
3. Box culverts and bridges shall be designed and built to NDDOT standards.
4. No guardrail shall be installed without the approval of the County Engineer.
5. Any culverts or structures replaced in existing subdivisions shall meet these standards.

VI. ACCESS AND APPROACHES

1. All subdivisions must have a minimum of 2 entry/exit roadways unless approved by the County Engineer.
2. Approaches accessing County roads shall be spaced a minimum of 1320' apart unless otherwise approved by the County Engineer.
3. No intersections shall be placed within 300' of the county roadway unless approved by the County Engineer.
4. No residential driveway shall be placed within 100' of the county roadway intersection.
5. No commercial or industrial driveway shall be placed within 150' of the county roadway intersection.
6. Approach slopes shall be a minimum of 6:1 within the subdivision. Approach slopes intersecting County roads shall be a minimum of 8:1.
7. Approaches shall be a maximum of 36' in width.
8. Sight triangles shall be provided at the intersections with County roads.
9. Mailboxes shall be installed so that no part of the box hangs over the graded roadway.

VII. EARTHWORK & EROSION CONTROL

1. Rock excavation shall be a minimum of 1' below the graded surface.
2. Subgrade compaction shall be Type C for gravel roads, Type A for paved roads.
3. A Stormwater Management Plan is required for all developments. Submit to the County for approval prior to submittal to the ND Health Department.
4. Seeding types & Erosion Control devices (temporary and permanent) proposed for use shall be approved by the County.

VIII. OTHER

1. Tree and vegetation setbacks from County roads and Subdivision streets shall be reviewed and approved by the County on a case by case basis.
2. Street name signing shall be provided as required by the Stark County Emergency Manager, and Regulatory signs will be provided and installed by the developer.

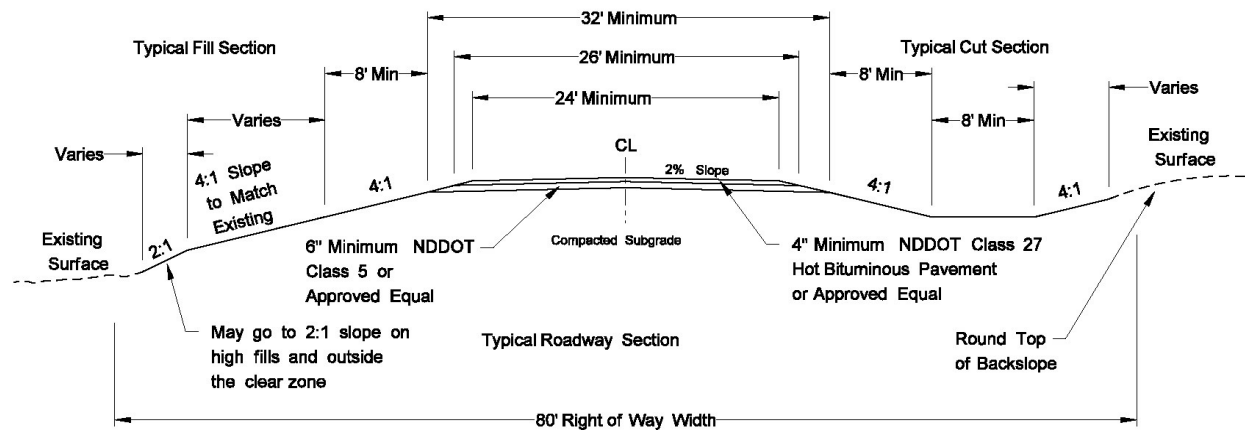


Figure 1
Residential Subdivision Roadway Standards
Asphalt Surfacing

- Notes:
1. Typical ditch depth shall be a minimum of 2 feet
 2. All design and construction must conform to NDDOT standards
 3. Wearing course material shall be sloughed to match the roadway side slopes

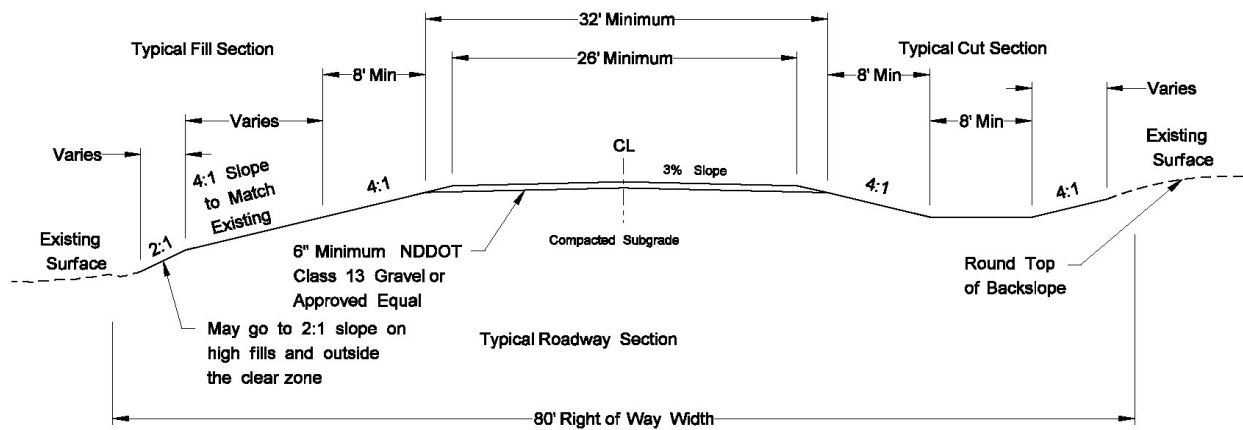


Figure 2
Residential Subdivision Roadway Standards
Gravel Surfacing

- Notes:
1. Typical ditch depth shall be a minimum of 2 feet
 2. All design and construction must conform to NDDOT standards
 3. Wearing course material shall be sloughed to match the roadway side slopes

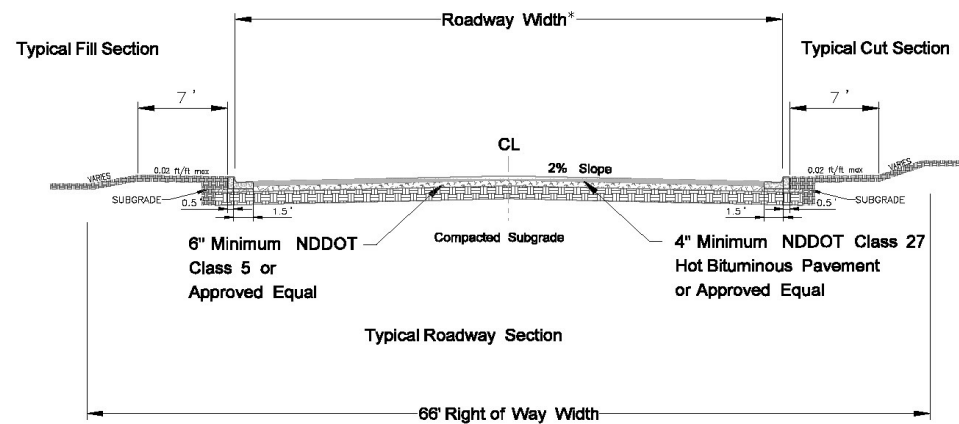


Figure 3
Residential Subdivision Roadway Standards
Curb & Gutter, & Asphalt Surfacing

*40' minimum - if parking allowed on both sides of roadway
 32' minimum - all other roadways

- Notes:**
1. All design and construction must conform to NDDOT standards
 2. Driveways shall be a minimum of 6" thick concrete (NDDOT CL.AE-3) and extend from the street to the Right of Way line. Refer to NDDOT Standard Drawings for details.
 3. Sidewalks, if constructed, shall be a minimum of 5' wide.
 4. Mountable curb and gutter shall not be used.